

ABSTRACT OF THE DISCLOSURE

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a7 An optical communication system is provided which is
capable of easily calibrating a difference in outputs of each of
5 wavelength-multiplexed optical signals.

An optical signal propagates through an optical transmission line and is amplified by an optical amplifier in an optical repeater and is sent as an amplified optical signal to another optical transmission line. A transmission line compensating device in the optical repeater, based on a control signal superimposed on the optical signal propagated through the optical transmission line, generates control light and sends it to the optical transmission line. A loss spectrum is compensated by the control light.

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